

WASTE UTILIZATION PLAN

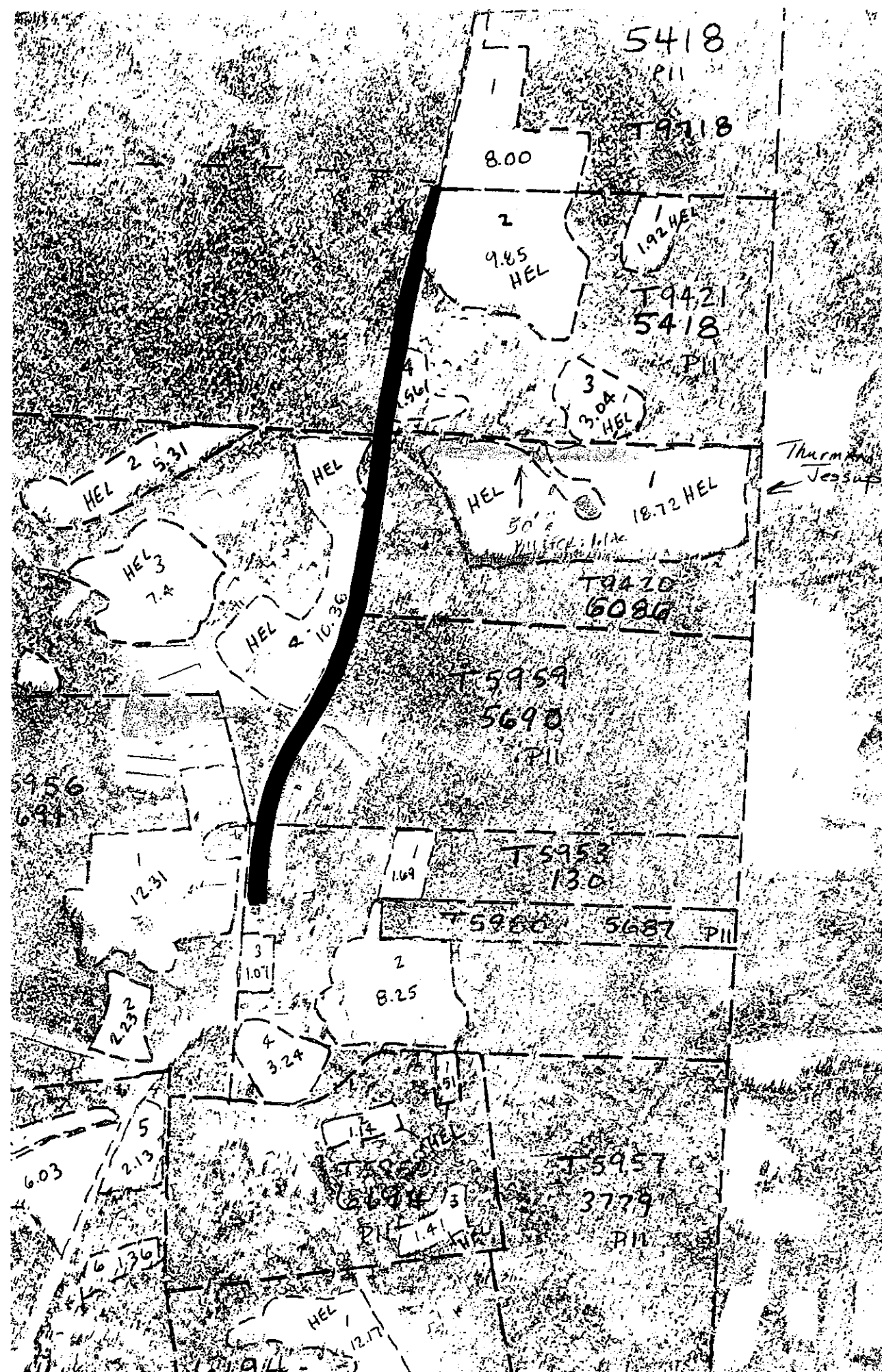
Thurman Jessup

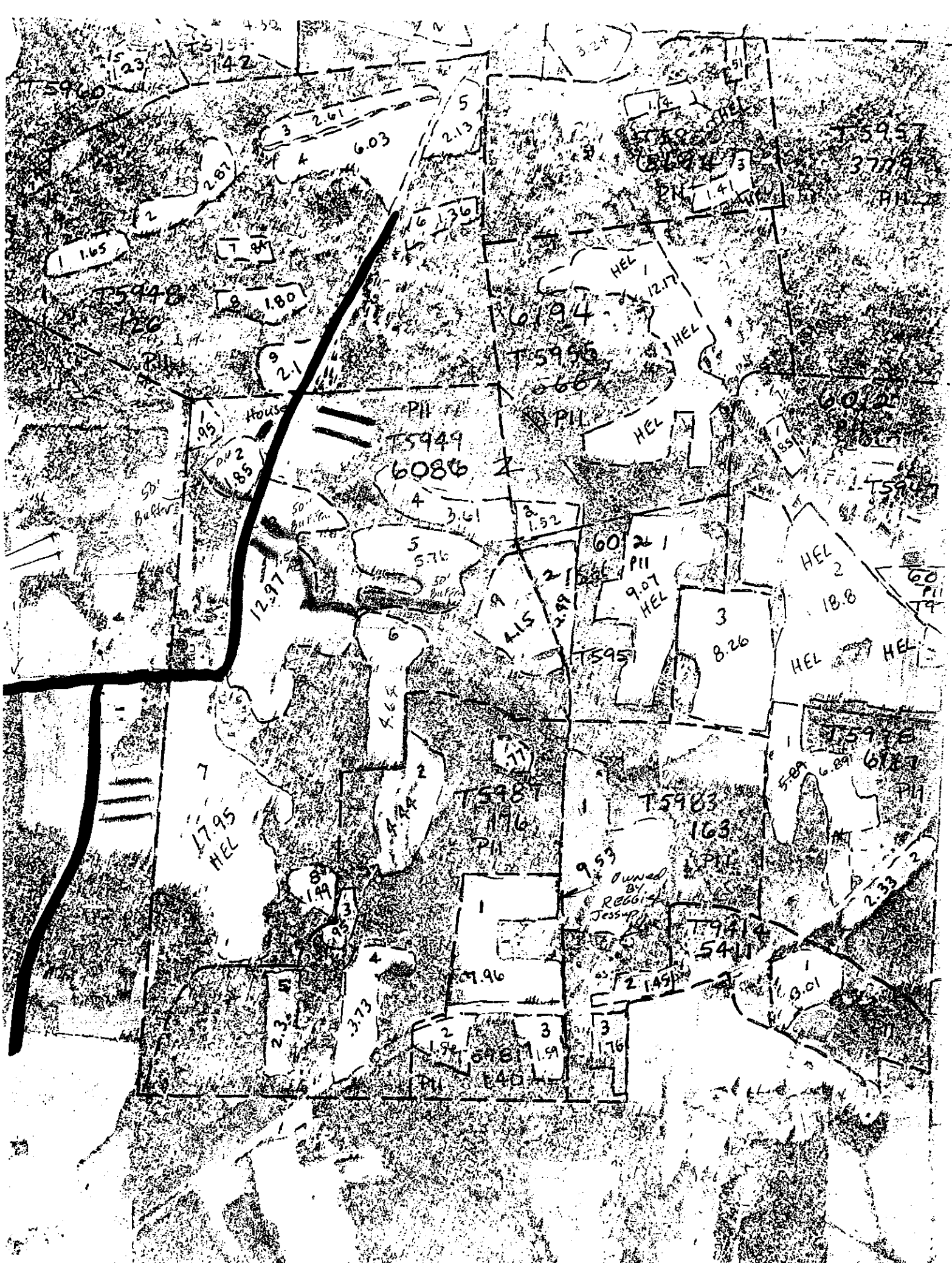
Application of Waste by Irrigation

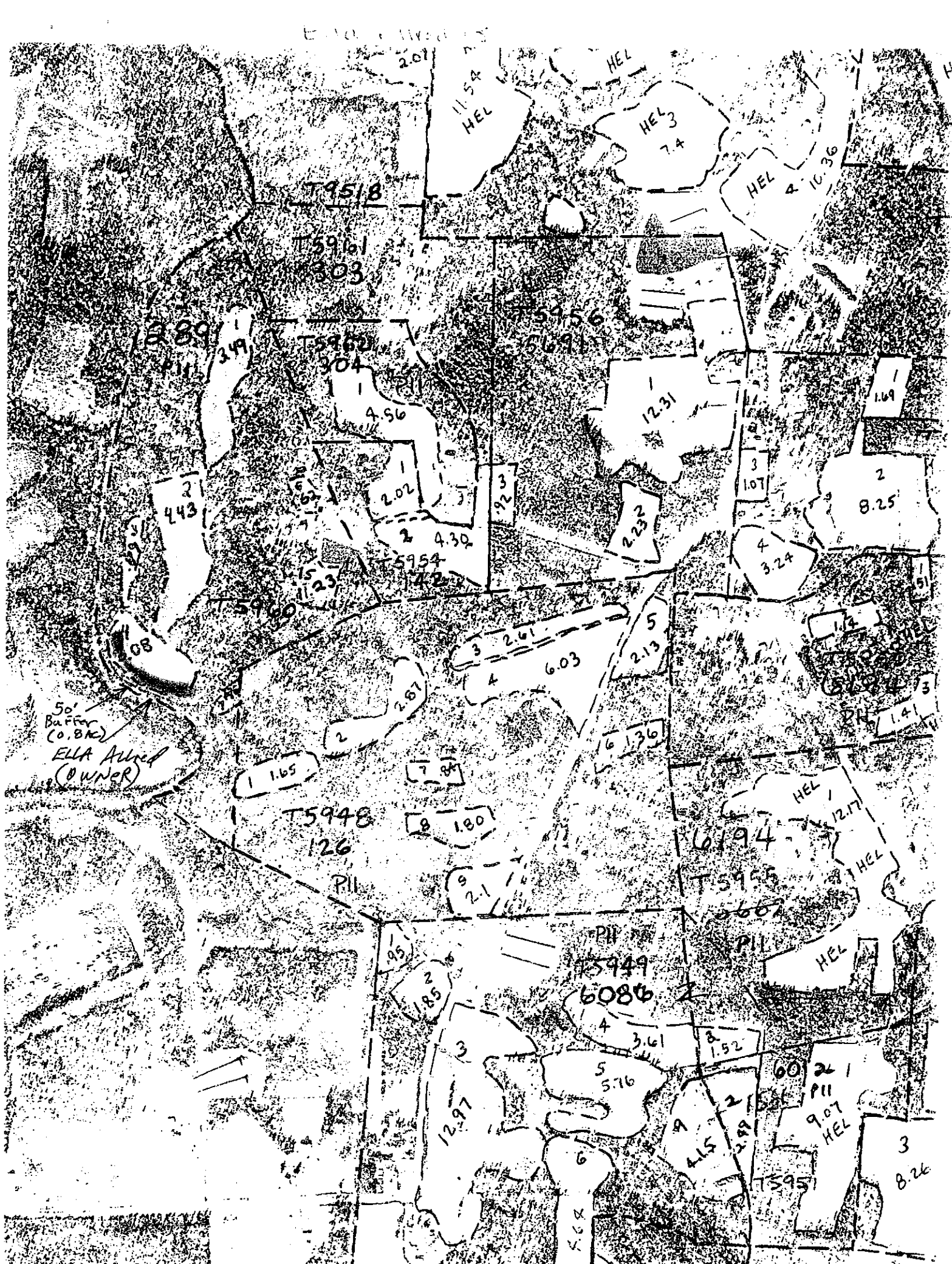
Field No.	Soil Type	Crop	Application Rate (In/Hr)	Application Amount (In.)
T-166 F. 1	130B Nason	HAYLAND FESCUE	0.4 IN/hr	* 1.0 1.6 inch
F. 2	↓ ↓	↓	↓	↓
F. 3	↓ ↓	↓	↓	↓
T-169 F. 1	525B Cid	↓	0.2 IN/hr	* 1.0 1.3 inch
F. 2	↓ ↓	↓	↓	↓
T-142 1,2,3,4	130B	HAYLAND FESCUE	0.4 IN/hr	1.0 inch

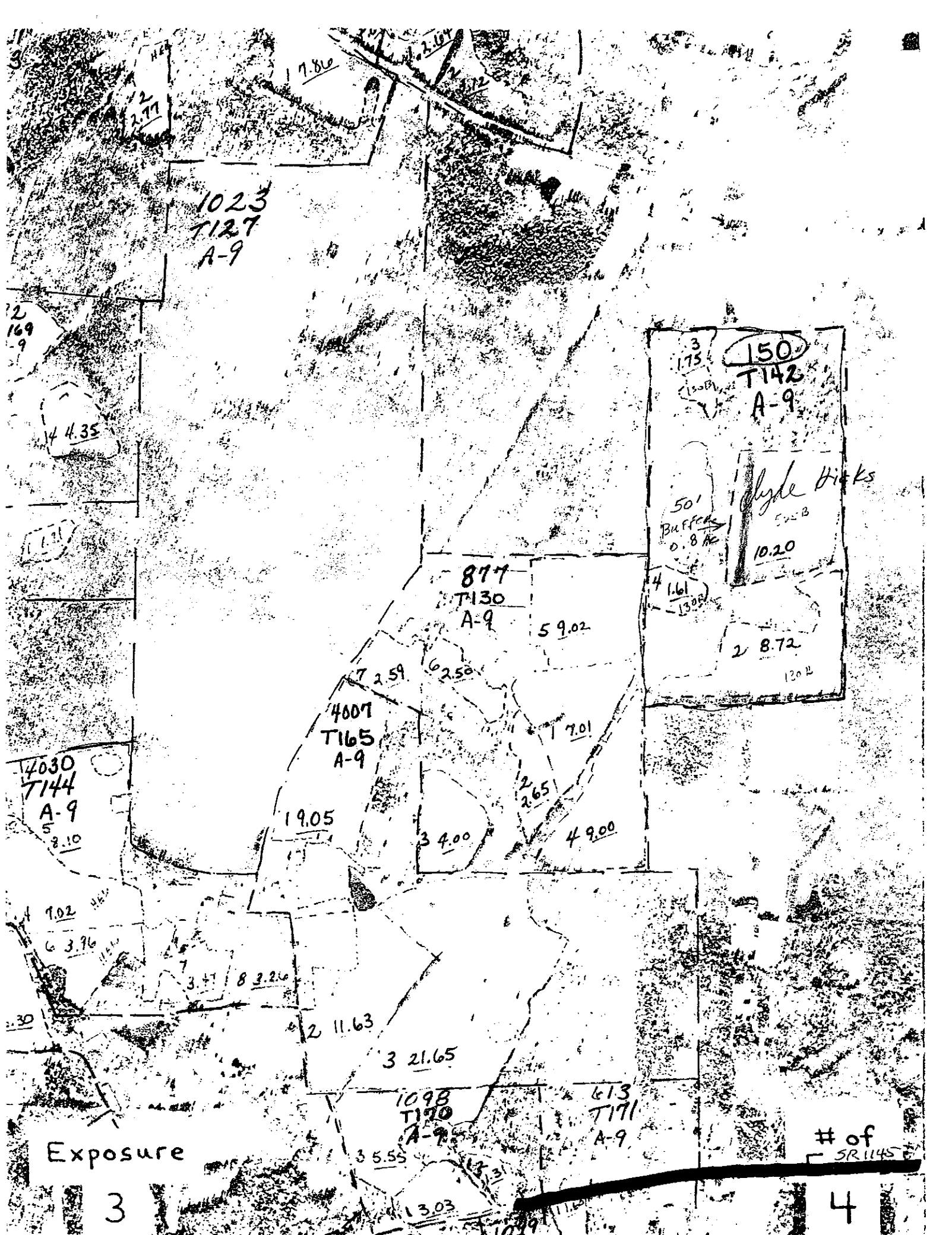
THIS TABLE IS NOT NEEDED IF WASTE IS NOT BEING APPLIED BY IRRIGATION, HOWEVER A SIMILAR TABLE WILL BE NEEDED FOR DRY LITTER OR SLURRY.

* REVISED 12/1/98
per letter from
NCDENR/DWG
dated 11/24/98









1023
T127
A-9

4 4.35

150
T142
A-9

50'
Buffer
0.8 Ac

Hyde Hicks
50.3
10.20

877
T130
A-9

59.02

2 8.72

4007
T165
A-9

19.05

3 4.00

4 9.00

4030
T144
A-9
5 8.10

9.02
6 3.96

3 4.1 8 3.26

2 11.63

3 21.65

1098
T170
A-9

3 5.55

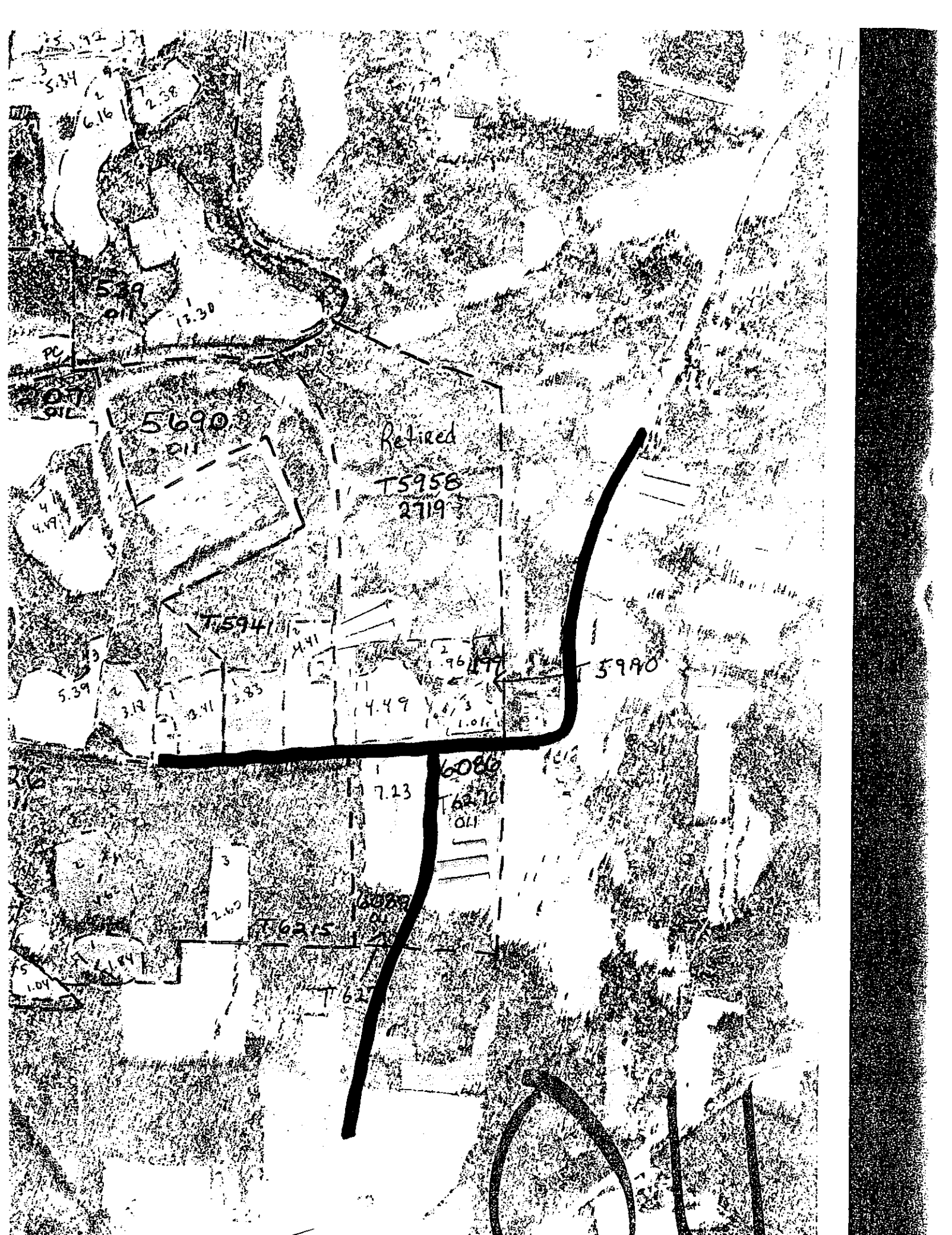
613
T171
A-9

Exposure

of
SR 1145

3

4



5.34
6.16
2.38

5.39
13.30

PC
OT
OTC

4.49

5.39

1.04

5690
0.11

T 5941
4.41
3.83
3.41
3.19

2.65
T 6215

Retired
T 5958
2719
4.49
1.01

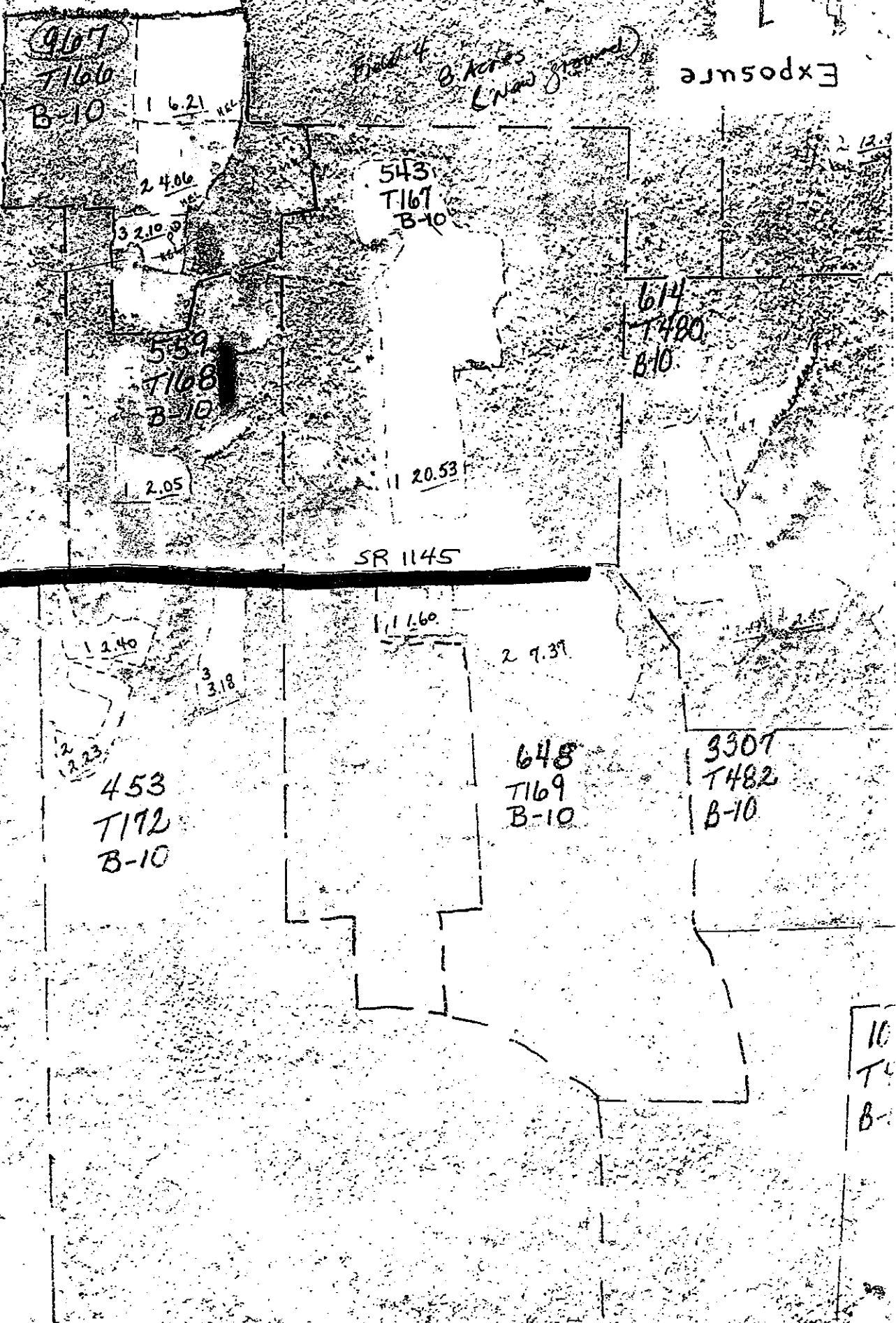
6086
7.13
T 6216
0.11
6088
0.11
T 6215
62

T 5940

Thurs. 10th J. 33up

5
of
Farms

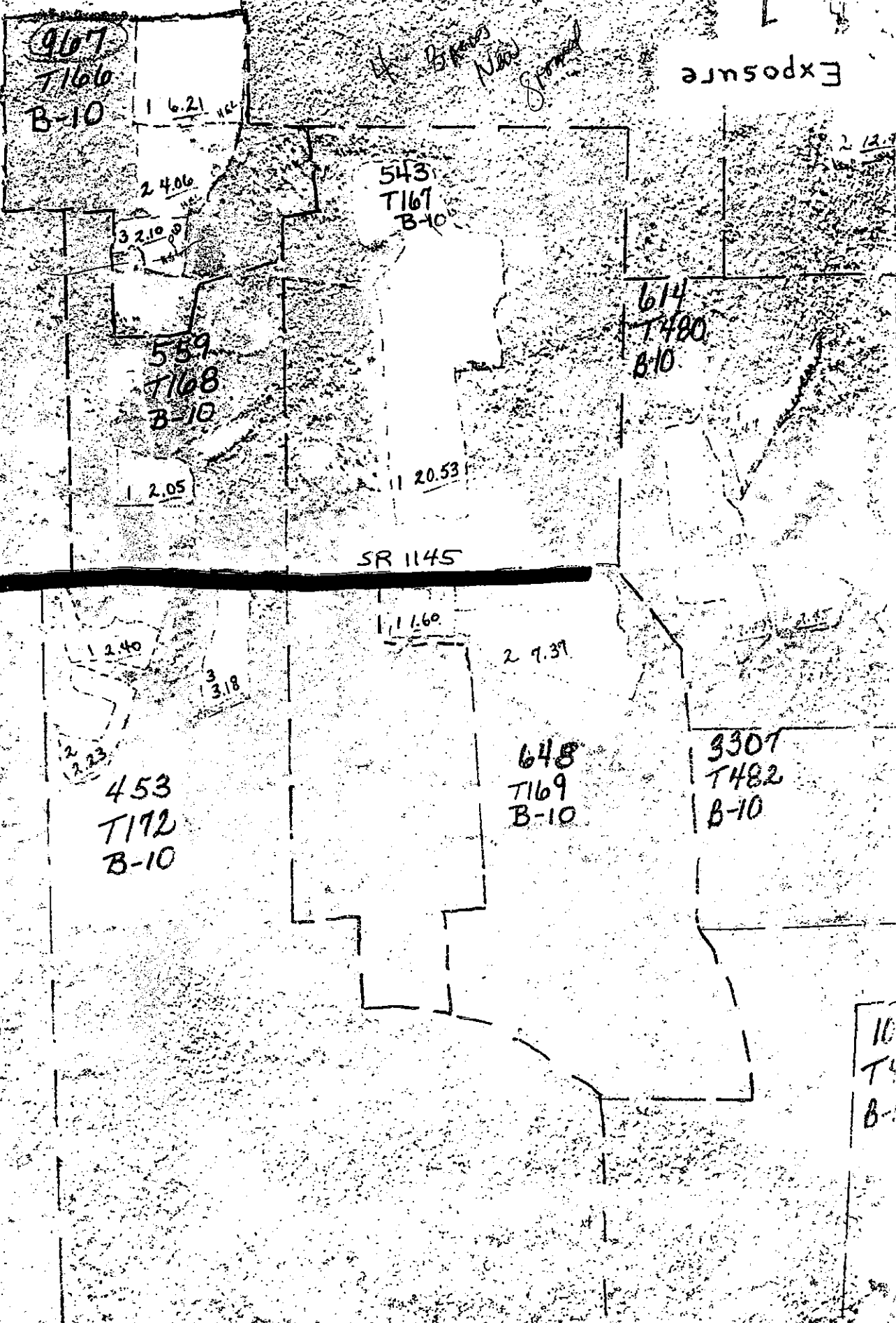
Exposure



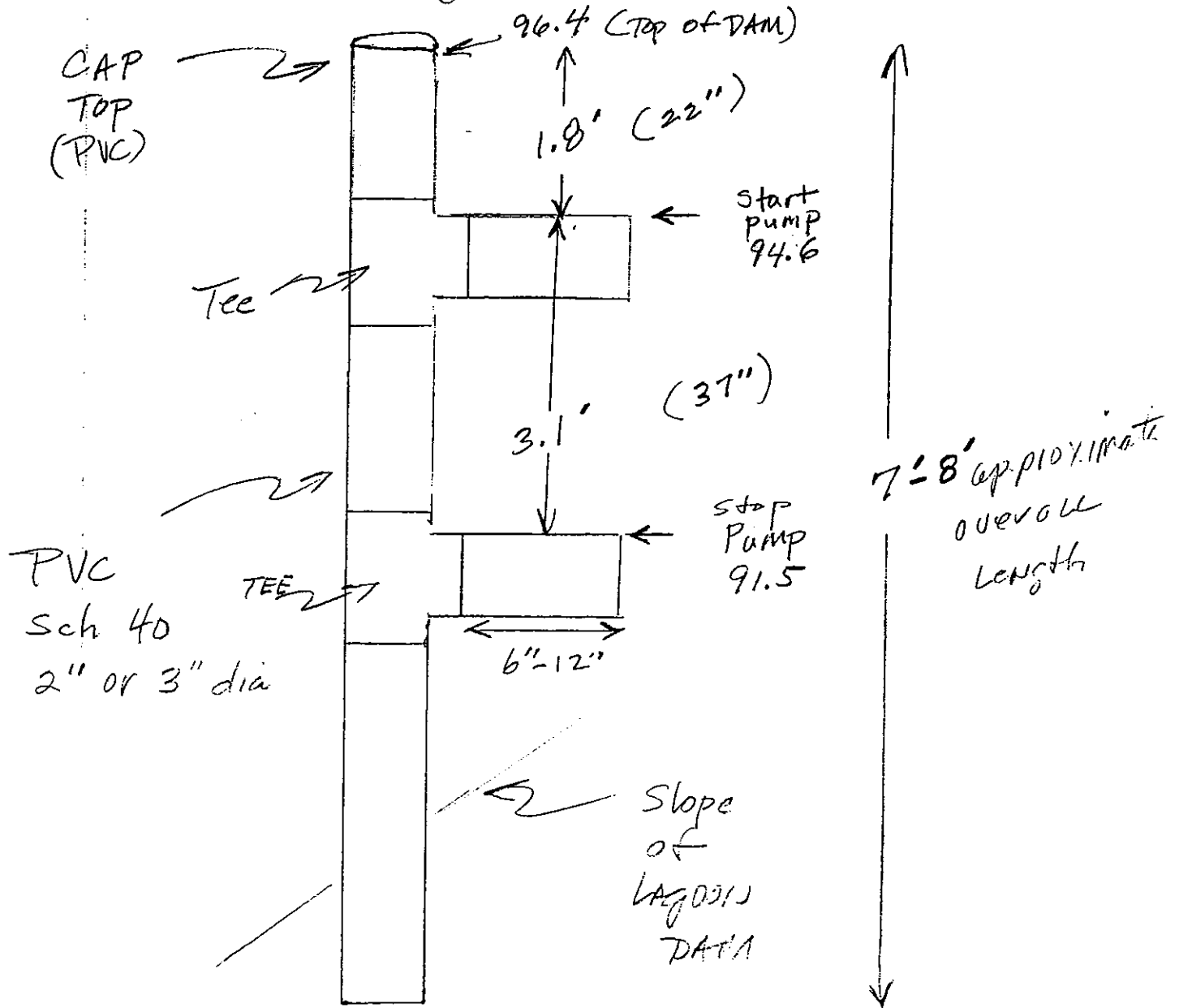
Th. man J. S. S. S.

5
of
Farms

1
Exposure



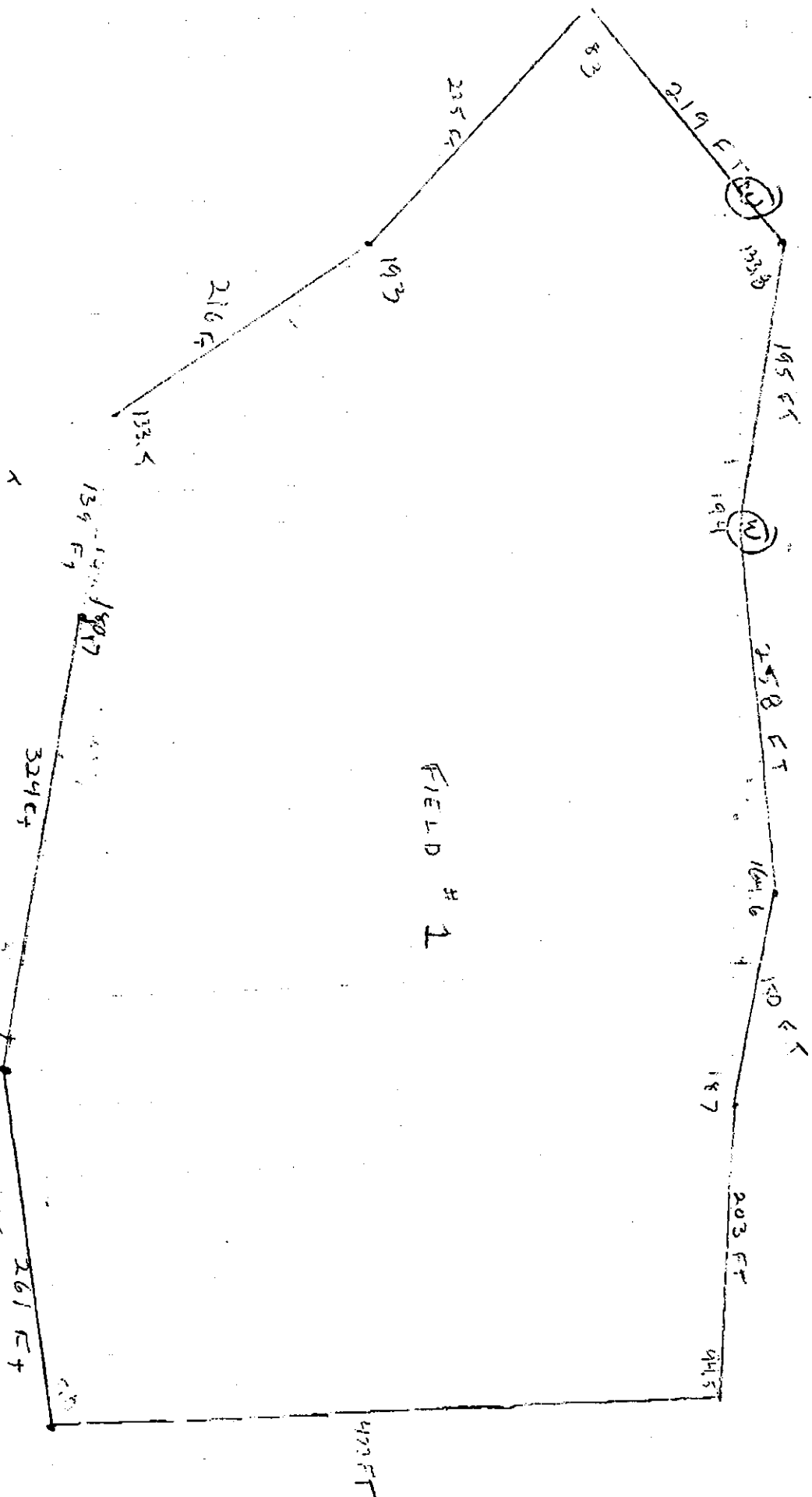
Thurman Jessup Lagoon Marker 6/16/97



(Drawing Not to scale)

6/17/97

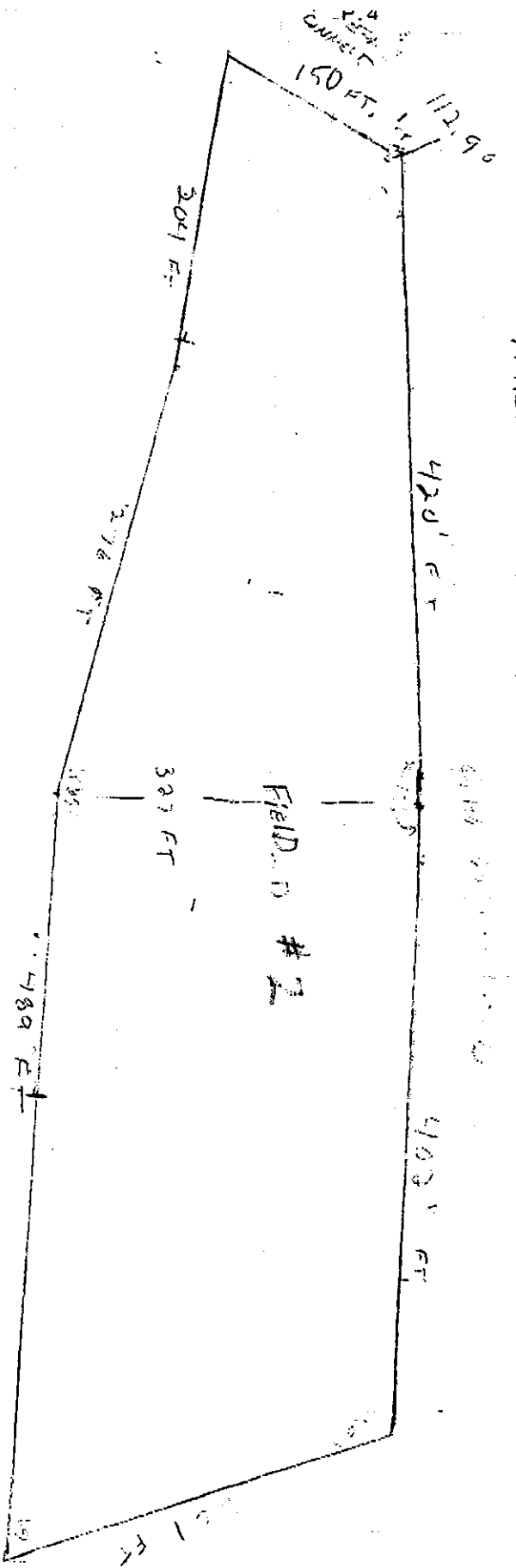
Tract 1660 Fishbe Land 2



Area = 510603 FT² = 11.72 Acres

Official acreage determination conducted by Margaret O'Keefe
and Henry Datz

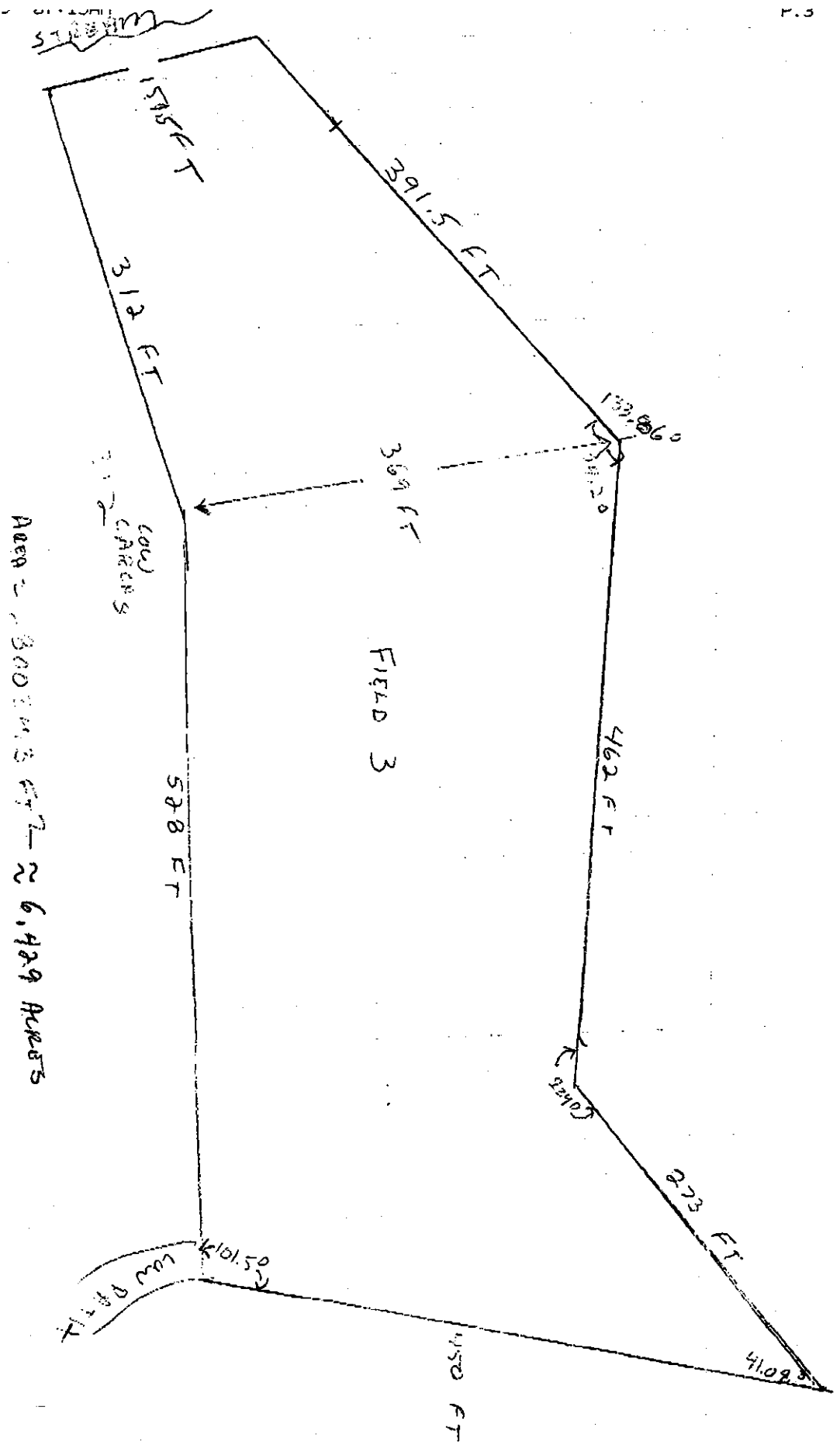
Tract 1410 Field 4



$$AREA = 192359.3 \text{ FT}^2 = 4.42 \text{ Acres}$$

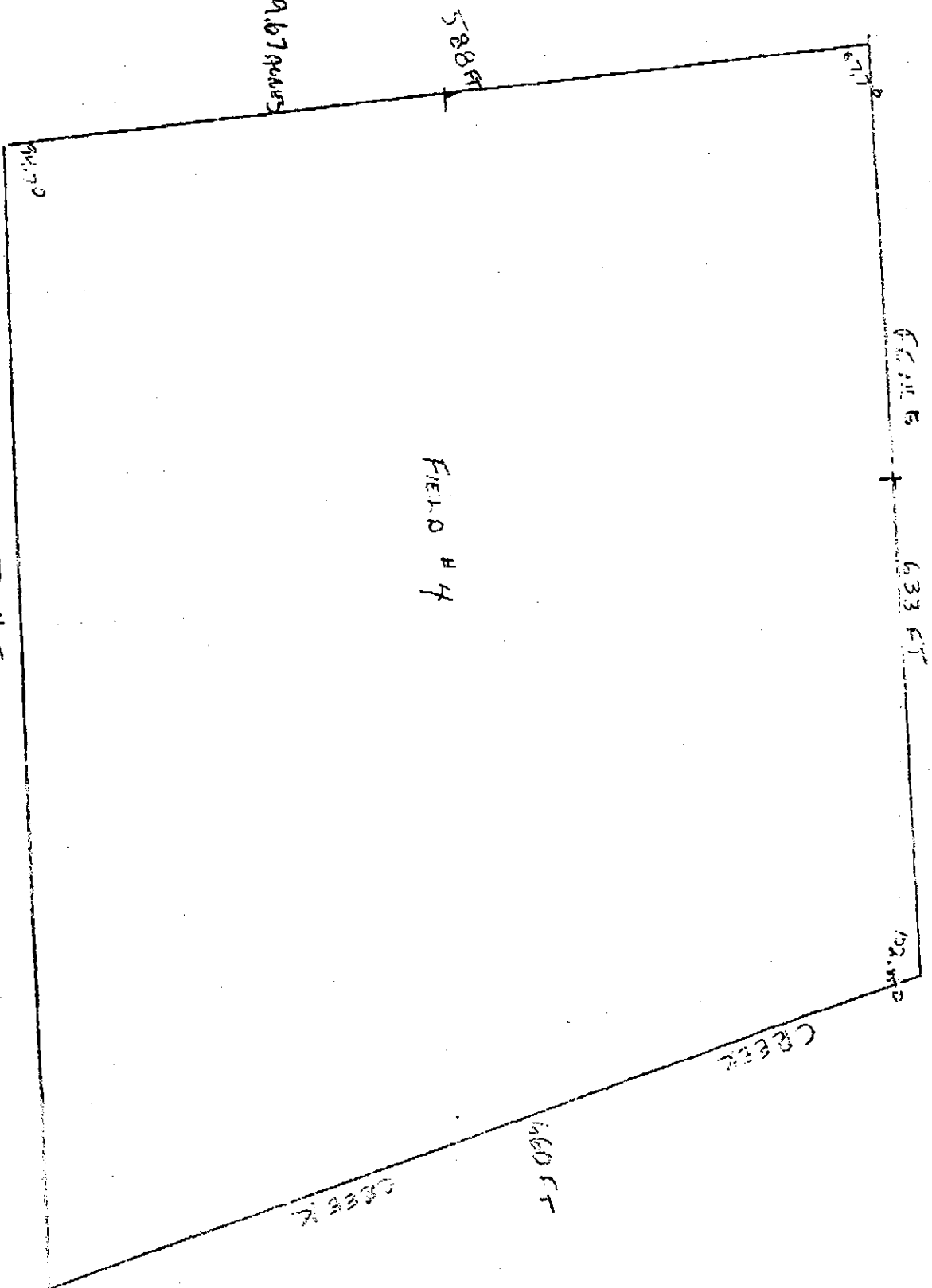
Official acreage determination completed by Margaret O'Keefe and
Henry Outz

Tract 142 Field 2



Official Acreage determination completed by Margaret O'Keefe and Henry Outz

Tract 142 Field 1



Official acreage determination completed by Margaret O'Keefe and Henry Outz

Date:

Hard Hose Traveling Gun System FIELD DATA SHEET *

1. Make and model number 36-41 25-35/11
2. Hose length _____ [feet] and hose inside diameter (ID) 3/4 [inch]
3. Gun make and model number 1/2 inch 250
4. Gun nozzle size .50 [inch], _____ ring orifice, _____ taper bore orifice.
5. Gun arc angle 75 [degrees]
6. Travel lane spacing _____ [feet]. Indicate whether _____ uniform, _____ random.
Number of exterior hydrants _____ Number of interior hydrants _____
7. Gun wetted diameter 288 [feet]. _____ measured, _____ based on gun chart.
8. Gun pressure 101 [psi]. _____ observed at working gauge,
_____ determined from gun charts, _____ calculated (show calculations)
- **9. Operating pressure at hose reel 114 [psi]. _____ observed at working gauge,
_____ provided by owner.
- **10. Supply line size _____ [inch] (from pump to last hydrant).
- **11. Supply line length _____ feet (maximum pumping distance).
- **12. Supply line type _____ PVC, _____ aluminum.
- **13. Pump make and model number 3500
- **14. Pump capacity, _____ [gpm].
- **15. Engine make and model number 3500 2500
or
- **16. Electric motor horsepower and rpm _____ [hp] _____ [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Thurman Jessup
Signature of Owner or Facility Representative
Thurman Jessup
Printed Name of Owner or Facility Representative

and/or

Carl Henry Outy Jr.
Signature of Technical Specialist
Carl Henry Outy Jr.
Printed name of Technical Specialist

Date 10/28/99

Date 10/28/99

*** Only the person or persons collecting the data should sign the data sheet.

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 3-77-142 Field Number (Identification) 1
2. Irrigation System Designation Existing Irrigation System New/ Expanded Irrigation System
3. Number of Travel Lanes 1 # Interior Lanes 1 # Exterior Lanes 375 [feet] Length of pull(L1)
1 # Interior Lanes 1 # Exterior Lanes 435 [feet] Length of pull(L2)
1 # Interior Lanes 1 # Exterior Lanes 435 [feet] Length of pull(L3)
4. Wetted Diameter 2.5 [feet] From field data sheet
5. Spacing 2.5 Hydrant Spacing [feet] 100 [as percent of wetted diameter]
6. Hydrant Layout Multiple Hydrants Single Hydrant Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) 1 Interior or ✓ Exterior (Lane/Hydrant)

1.7 (a) Acres start end of pull from Table 20.10 Column 8

2.3 (b) Acres middle portion of pull (L1)

{Pull Length 375 [feet] X Wetted Width 2.5 [feet]} / 43,560

0 (c) Acres stop end of pull from Table Column

3.0 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) 1 Interior or ✓ Exterior (Lane/Hydrant)

1.7 (a) Acres start end of pull from Table 20.10 Column 8

3.2 (b) Acres middle portion of pull (L1)

{Pull Length 435 [feet] X Wetted Width 2.5 [feet]} / 43,560

0 (c) Acres stop end of pull from Table Column

3.9 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) 1 Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

3.0 (a) Acres per Travel Lane Length (L1) X # Lanes = 3.0 Acres

3.9 (b) Acres per Travel Lane Length (L2) X # Lanes = 3.9 Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

6.9 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Hard Hose Traveling Gun System FIELD DATA SHEET *

1. Make and model number Beckley 85-3300
2. Hose length [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number Verdon 257
4. Gun nozzle size 80 [inch], ✓ ring orifice, taper bore orifice.
5. Gun arc angle 180 [degrees]
6. Travel lane spacing [feet]. Indicate whether uniform, random.
Number of exterior hydrants . Number of interior hydrants .
7. Gun wetted diameter 200 [feet]. ✓ measured, based on gun chart.
8. Gun pressure 151 [psi]. ✓ observed at working gauge,
 determined from gun charts, calculated (show calculations)
- **9. Operating pressure at hose reel 174 [psi]. ✓ observed at working gauge,
 provided by owner.
- **10. Supply line size [inch] (from pump to last hydrant).
- **11. Supply line length feet (maximum pumping distance).
- **12. Supply line type PVC, 6" aluminum.
- **13. Pump make and model number Cadman 3300
- **14. Pump capacity, 125 [gpm].
- **15. Engine make and model number John Deere
or
- **16. Electric motor horsepower and rpm [hp] 32 [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line.
Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Shurman Jessup
Signature of Owner or Facility Representative

and/or

Carl Henry Dutz Jr.
Signature of Technical Specialist

Shurman Jessup
Printed Name of Owner or Facility Representative

Carl Henry Dutz Jr.
Printed name of Technical Specialist

Date 10/28/99

Date 10/28/99

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Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 5
2. Irrigation System Designation Existing Irrigation System ☒ New/ Expanded Irrigation System
3. Number of Travel Lanes 1 # Interior Lanes 1 # Exterior Lanes 225 [feet] Length of pull(L1)
1 # Interior Lanes 1 # Exterior Lanes 225 [feet] Length of pull(L2)
1 # Interior Lanes 1 # Exterior Lanes 350 [feet] Length of pull(L3)
4. Wetted Diameter 288 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout Multiple Hydrants ☒ Single Hydrant Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or ☒ Exterior (Lane/Hydrant)

170 (a) Acres start end of pull from Table 2575 Column 8

3.09 (b) Acres middle portion of pull (L1)

{Pull Length 225 [feet] X Wetted Width 288 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 2575 Column 8

3.09 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) ☒ Interior or Exterior (Lane/Hydrant)

150 (a) Acres start end of pull from Table 2745 Column 8

3.11 (b) Acres middle portion of pull (L1)

{Pull Length 225 [feet] X Wetted Width 288 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 2745 Column 8

3.11 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or ☒ Exterior (Lane/Hydrant)

170 (a) Acres start end of pull from Table 2575 Column 8

2.72 (b) Acres middle portion of pull (L1)

{Pull Length 350 [feet] X Wetted Width 288 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 2575 Column 8

2.72 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

3.09 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 3.09 Acres

3.11 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 3.11 Acres

2.72 (c) Acres per Travel Lane Length (L3) X 1 # Lanes = 2.72 Acres

8.92 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Hard Hose Traveling Gun System FIELD DATA SHEET *

revised after fields have been cleaned.

1. Make and model number Berkly B3TDBM
2. Hose length _____ [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number Nelson 200
4. Gun nozzle size 1.86 [inch], ☒ ring orifice, _____ taper bore orifice.
5. Gun arc angle 180 [degrees]
6. Travel lane spacing 174 [feet]. Indicate whether _____ uniform, _____ random.
Number of exterior hydrants _____. Number of interior hydrants _____.
7. Gun wetted diameter 288 [feet]. ☒ measured, _____ based on gun chart.
8. Gun pressure 101 [psi]. ☒ observed at working gauge,
_____ determined from gun charts, _____ calculated (show calculations)
- **9. Operating pressure at hose reel 119 [psi]. ☒ observed at working gauge,
_____ provided by owner.
- **10. Supply line size _____ [inch] (from pump to last hydrant).
- **11. Supply line length _____ feet (maximum pumping distance).
- **12. Supply line type _____ PVC, 6" aluminum.
- **13. Pump make and model number Cadman 3250
- **14. Pump capacity, 125 [gpm].
- **15. Engine make and model number John Deere
or _____
- **16. Electric motor horsepower and rpm _____ [hp] 22 [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

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Signature of Owner or Facility Representative

and/or

Carl Henry Outz Jr.
Signature of Technical Specialist

Thurman Jessup
Printed Name of Owner or Facility Representative

Carl Henry Outz Jr.
Printed name of Technical Specialist

Date

7/18/02

Date

7/18/02

*** Only the person or persons collecting the data should sign the data sheet.

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 4
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes # Exterior Lanes [feet] Length of pull(L1)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L2)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 233 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☐ Multiple Hydrants ☒ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or ☒ Exterior (Lane/Hydrant)

1.74 (a) Acres start end of pull from Table 5510 Column 8

2.14 (b) Acres middle portion of pull (L1)

{Pull Length 578 [feet] X Wetted Width 233 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 5590 Column 2

4.1 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

7.1 (a) Acres per Travel Lane Length (L1) X # Lanes = 4.1 Acres

 (b) Acres per Travel Lane Length (L2) X # Lanes = Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

4.1 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Hard Hose Traveling Gun System FIELD DATA SHEET *

1. Make and model number Berkley B3JOB10
2. Hose length _____ [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number Nelson 200
4. Gun nozzle size .86 [inch], ☒ ring orifice, _____ taper bore orifice.
5. Gun arc angle 120 [degrees]
6. Travel lane spacing 74 [feet]. Indicate whether _____ uniform, _____ random.
Number of exterior hydrants _____. Number of interior hydrants _____.
7. Gun wetted diameter 244 [feet]. ☒ measured, _____ based on gun chart.
8. Gun pressure 101 [psi]. ☒ observed at working gauge,
_____ determined from gun charts, _____ calculated (show calculations)
- **9. Operating pressure at hose reel 119 [psi]. ☒ observed at working gauge,
_____ provided by owner.
- **10. Supply line size _____ [inch] (from pump to last hydrant).
- **11. Supply line length _____ feet (maximum pumping distance).
- **12. Supply line type _____ PVC, _____ aluminum.
- **13. Pump make and model number 127 man 3350
- **14. Pump capacity, 125 [gpm].
- **15. Engine make and model number _____
or _____
- **16. Electric motor horsepower and rpm _____ [hp] 22 [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Thurman Jessup
Signature of Owner or Facility Representative
THURMAN JESSUP
Printed Name of Owner or Facility Representative

and/or

Cal Henry Outy Jr.
Signature of Technical Specialist
Cal Henry Outy Jr.
Printed name of Technical Specialist

Date 10/28/99

Date 10/28/99

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Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 4
2. Irrigation System Designation Existing Irrigation System New/Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes 1 # Exterior Lanes 1150 [feet] Length of pull(L1)
 # Interior Lanes 1 # Exterior Lanes 1150 [feet] Length of pull(L2)
 # Interior Lanes 1 # Exterior Lanes 450 [feet] Length of pull(L3)
4. Wetted Diameter 288 [feet] From field data sheet
5. Spacing Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout Multiple Hydrants ☒ Single Hydrant Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or ☒ Exterior (Lane/Hydrant)

.70 (a) Acres start end of pull from Table EE75 Column B

5.7 (b) Acres middle portion of pull (L1)

{Pull Length 1150 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

6.4 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or ☒ Exterior (Lane/Hydrant)

.70 (a) Acres start end of pull from Table EE75 Column B

5.7 (b) Acres middle portion of pull (L1)

{Pull Length 1150 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

6.4 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or ☒ Exterior (Lane/Hydrant)

.70 (a) Acres start end of pull from Table EE75 Column B

2.23 (b) Acres middle portion of pull (L1)

{Pull Length 450 [feet] X Wetted Width 216 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

2.93 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

6.4 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 6.4 Acres

6.4 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 6.4 Acres

2.93 (c) Acres per Travel Lane Length (L3) X 1 # Lanes = 2.93 Acres

15.73 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Wettable Acre Computational Worksheet Completed by: Carl Henry Duth Jr

Date: 7/16/02

Hard Hose Traveling Gun System FIELD DATA SHEET *

1. Make and model number Berkley B3JOBM
2. Hose length _____ [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number Nelson 200
4. Gun nozzle size .86 [inch], ☒ ring orifice, _____ taper bore orifice.
5. Gun arc angle 180 [degrees]
6. Travel lane spacing 174 [feet]. Indicate whether _____ uniform, _____ random.
Number of exterior hydrants _____. Number of interior hydrants _____.
7. Gun wetted diameter 288 [feet]. ☒ measured, _____ based on gun chart.
8. Gun pressure 101 [psi]. ☒ observed at working gauge,
_____ determined from gun charts, _____ calculated (show calculations)
- **9. Operating pressure at hose reel 119 [psi]. ☒ observed at working gauge,
_____ provided by owner.
- **10. Supply line size _____ [inch] (from pump to last hydrant).
- **11. Supply line length _____ feet (maximum pumping distance).
- **12. Supply line type _____ PVC, 6" aluminum.
- **13. Pump make and model number
Cadman 3250
- **14. Pump capacity, 125 [gpm].
- **15. Engine make and model number John Deere
or _____
- **16. Electric motor horsepower and rpm _____ [hp] 22 [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

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Signature of Owner or Facility Representative
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Printed Name of Owner or Facility Representative

and/or Carl Henry Outg Jr.
Signature of Technical Specialist
Carl Henry Outg Jr.
Printed name of Technical Specialist

Date 7/18/02

Date 7/18/02

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Hard Hose Traveling Gun System **COMPUTATIONAL WORKSHEET**

1. Farm Number (Identification) 967 T-166 Field Number (Identification) 2
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes # Exterior Lanes [feet] Length of pull(L1)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L2)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 253 [feet] From field data sheet
5. Spacing 74 Hydrant Spacing [feet] [as percent of wetted diameter]
6. Hydrant Layout ☒ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or 440 Exterior (Lane/Hydrant)

165 (a) Acres start end of pull from Table 2500 Column 2

2.9 (b) Acres middle portion of pull (L1)

{Pull Length 440 [feet] X Wetted Width 253 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 2500 Column

3.2 **Total acres for Travel Lane Length (L1) (Sum: a + b + c)**

Travel Lane Length (L2) Interior or 75 Exterior (Lane/Hydrant)

165 (a) Acres start end of pull from Table 2500 Column 2

.5 (b) Acres middle portion of pull (L1)

{Pull Length 75 [feet] X Wetted Width 253 [feet]} / 43,560

0 (c) Acres stop end of pull from Table 2500 Column

1.2 **Total acres for Travel Lane Length (L2) (Sum: a + b + c)**

Travel Lane Length (L3) Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

3.2 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 3.2 Acres

1.2 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 1.2 Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

4.8 **Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)**

Hard Hose Traveling Gun System FIELD DATA SHEET *

1. Make and model number Berkly B3JOBM
2. Hose length 240 [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number NELSON 200
4. Gun nozzle size .86 [inch], ☒ ring orifice, ☐ taper bore orifice.
5. Gun arc angle 180 [degrees]
6. Travel lane spacing 174 [feet]. Indicate whether ☐ uniform, ☐ random.
Number of exterior hydrants . Number of interior hydrants .
7. Gun wetted diameter 285 [feet]. ☒ measured, ☐ based on gun chart.
8. Gun pressure 101 [psi]. ☒ observed at working gauge,
☐ determined from gun charts, ☐ calculated (show calculations)
- **9. Operating pressure at hose reel 119 [psi]. ☒ observed at working gauge,
☐ provided by owner.
- **10. Supply line size [inch] (from pump to last hydrant).
- **11. Supply line length feet (maximum pumping distance).
- **12. Supply line type PVC, 6" aluminum.
- **13. Pump make and model number Cadman 3250
- **14. Pump capacity, 125 [gpm].
- **15. Engine make and model number John Deere
or
- **16. Electric motor horsepower and rpm [hp] 22 [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Thurman Jessup
Signature of Owner or Facility Representative

and/or

Carl Henry Outz Jr.
Signature of Technical Specialist

Thurman Jessup
Printed Name of Owner or Facility Representative

Carl Henry Outz Jr.
Printed name of Technical Specialist

Date 10/28/99

Date 10/28/99

*** Only the person or persons collecting the data should sign the data sheet.

Hard Hose Traveling Gun System

- Travel Lane Length (L1) Interior or
- 360
- Exterior (Lane/Hydrant)

65 (a) Acres start end of pull from Table EE60 Column 2

0.4 (b) Acres middle portion of pull (L1)

{Pull Length 230 [feet] X Wetted Width 282 [feet]} / 43,560

(c) Acres stop end of pull from Table 3540 Column 1

Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or ~~575~~ Exterior (Lane/Hydrant)

(a) Acres start end of pull from Table EE60 Column B

(b) Acres middle portion of pull (L1)

{Pull Length 375 [feet] X Wetted Width 298 [feet]} / 43,560

(c) Acres stop end of pull from Table 1-100 Column 1

Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or Exterior (Lane/Hydrant)

(a) Acres start end of pull from Table _____ Column _____

(b) Acres middle portion of pull (L1)

{Pull Length _____ [feet] X Wetted Width _____ [feet]} / 43,560

(c) Acres stop end of pull from Table Column

Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

5.0 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 3.5 Acres

3.2 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 3.2 Acres

(c) Acres per Travel Lane Length (L3) X _____ # Lanes = _____ Acres

6.2 **Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)**

Wettable Acre Computational Worksheet Completed by: Carl Henry, Ditz, Jr.

Date: 7/20/99

Hard Hose Traveling Gun System

FIELD DATA SHEET *

1. Make and model number B3-JDBM
2. Hose length 840 [feet] and hose inside diameter (ID) 3 1/2 [inch]
3. Gun make and model number Nelson 200
4. Gun nozzle size 20 [inch], ☒ ring orifice, ☐ taper bore orifice.
5. Gun arc angle 180 [degrees]
6. Travel lane spacing 174 [feet]. Indicate whether ☐ uniform, ☐ random.
Number of exterior hydrants . Number of interior hydrants .
7. Gun wetted diameter 288 [feet]. ☒ measured, ☐ based on gun chart.
8. Gun pressure 101 [psi]. ☒ observed at working gauge,
☐ determined from gun charts, ☐ calculated (show calculations)
- **9. Operating pressure at hose reel 119 [psi]. ☒ observed at working gauge,
☐ provided by owner.
- **10. Supply line size [inch] (from pump to last hydrant).
- **11. Supply line length feet (maximum pumping distance).
- **12. Supply line type PVC, ☒ aluminum.
- **13. Pump make and model number John Deere B3-JDBM
- **14. Pump capacity, 25 [gpm].
- **15. Engine make and model number John Deere
or
- **16. Electric motor horsepower and rpm [hp] [rpm]

Note: It is strongly recommended that operating pressure at the reel and gun wetted diameter be field determined.

- * Locate each hydrant on a copy of the map. Indicate the start and stop of the sprinkler cart for each travel lane and show distance traveled. Show the location of the supply line. Irrigated acres will be determined by travel lane
- ** Optional data, furnish where possible.

*** Information furnished by

Thurman Jessup
Signature of Owner or Facility Representative

and/or

Carl Henry Dutz
Signature of Technical Specialist

THURMAN JESSUP
Printed Name of Owner or Facility Representative

CARL HENRY DUTZ
Printed name of Technical Specialist

Date

10/28/99

Date

10/28/99

*** Only the person or persons collecting the data should sign the data sheet.

WASTE UTILIZATION PLAN AMMENDMENT

For Thurman Jessup
Date 12/30/02

The Environmental Management Commissions regulations for animal waste management provides the following information in their Seventh Guidance Memo dated January 9, 2001:

Animal waste application on fescue grass may begin on August 1 and end on July 31. This means animal waste may be applied to fescue throughout the year

There are two exceptions.

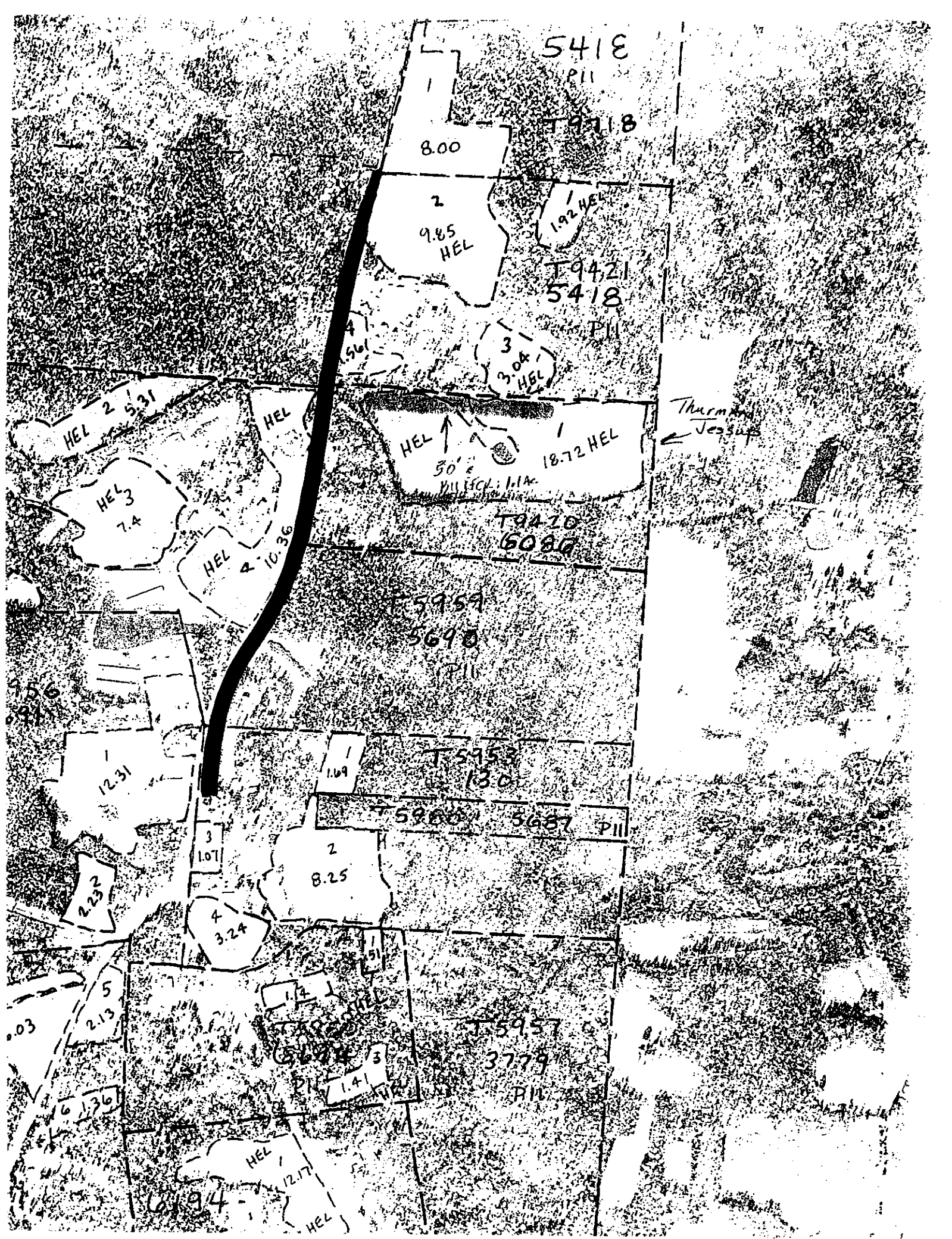
Exceptions:

- 1 **Limit nitrogen application during June and July. It is recommended that you apply no more than 30 lbs. of N per 30 day period during June and July providing there is adequate soil moisture. ***
- 2 **No nitrogen in December and January during severe winters such as when ground is frozen or when ground is too wet for equipment.**

Important: Include this Amendment with your Waste Utilization Plan.

Technical Representative Carl Henry Outz Jr. Date 12/30/02

***This information on application rate provided by Carroll Pierce with the Division of Soil and Water Conservation on August 28, 2001.**



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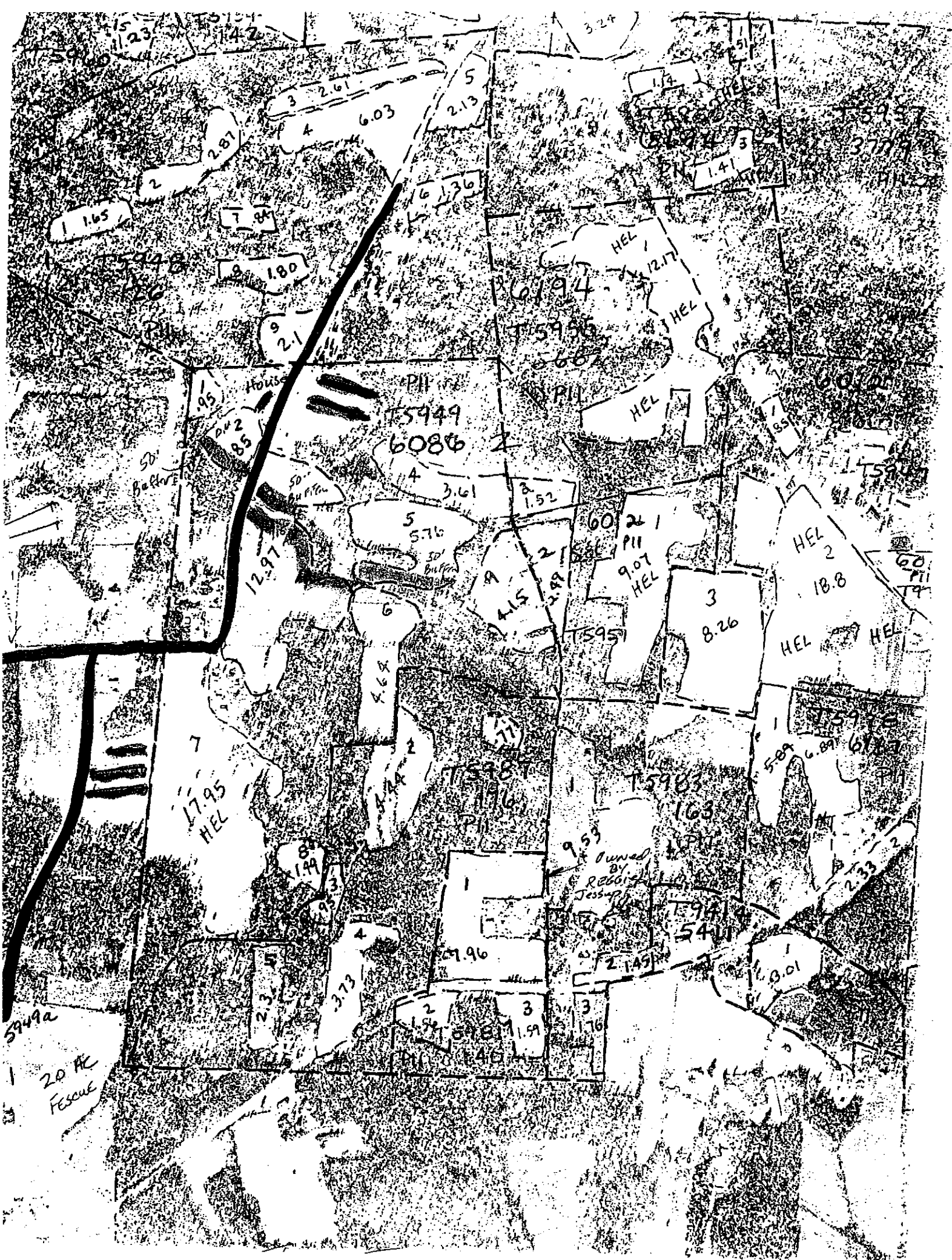
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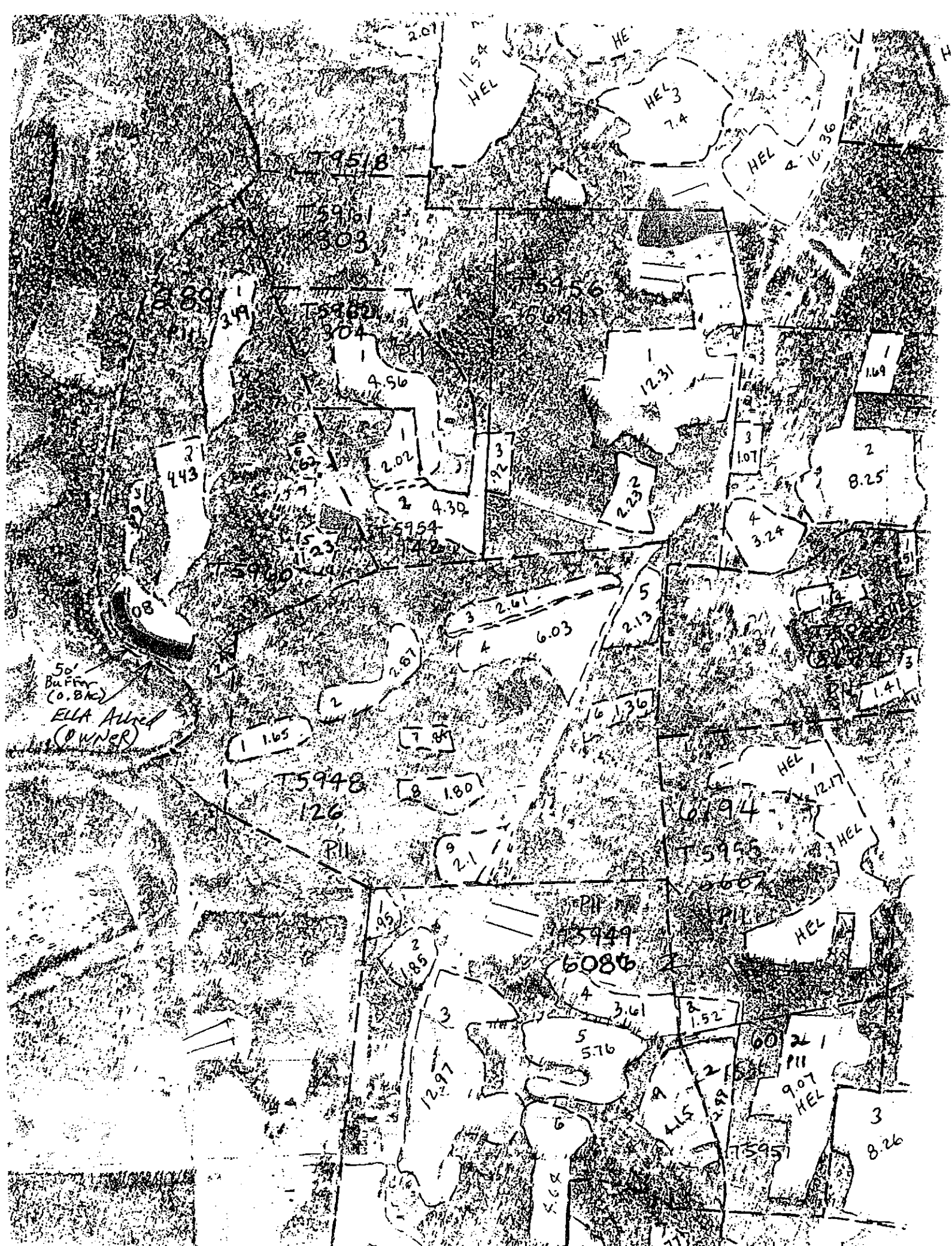
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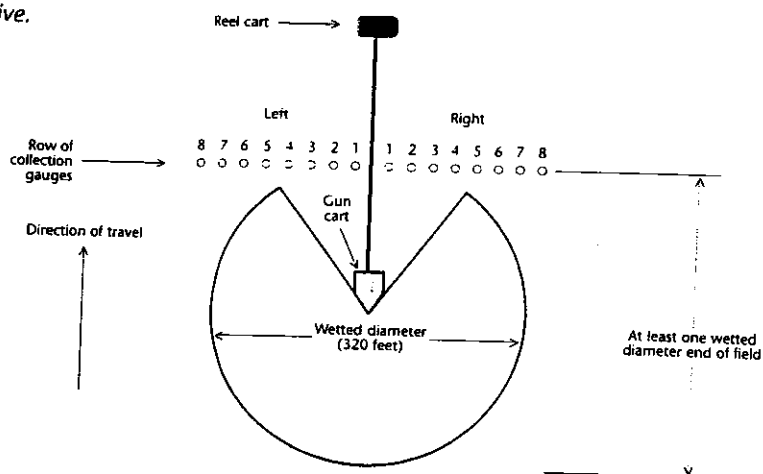
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Calibration Data (continued)

Gauge No.	Distance from Center (feet)	Volume Collected (inches)	Overlap Adjustment (inches)	Corrected Volume (inches)	Deviation from Average* (inches)
L1	9	.61	—	.61	.16
L2	27	.55	—	.55	.10
L3	45	.47	—	.47	.03
L4	63	.2	.1	.3	.15
L5	81	.05	—	—	—
L6	—	—	—	—	—
L7	—	—	—	—	—
L8	—	—	—	—	—
L9	—	—	—	—	—
L10	—	—	—	—	—
R1	9	.69	—	.69	.24
R2	27	.45	—	.45	.0
R3	45	.28	—	.28	.17
R4	63	.28	.05	.33	.12
R5	81	.1	—	—	—
R6	—	—	—	—	—
R7	—	—	—	—	—
R8	—	—	—	—	—
R9	—	—	—	—	—
R10	—	—	—	—	—

*Absolute value;
treat all values as positive.



Irrigation System Calibration Data Sheet for Hard Hose Traveler Irrigation System

DATE: 12/16/97 Land Owner Therman Jessop Farm No. _____

a. Manufacturers' Specifications: Gun Model CADMAN Type _____

Nozzle Dia. 1/2 in Pressure (Gun) 100 psi (Reel) 110 psi

Wetted diameter 162 ft Effective Spacing _____ ft Flow ~125 GPM

Hose Size: Length 840 ft Diameter 3 in

b. Spacing between collection containers (diameter _____ (ft) / 16) = 18 ft

c. Number of gauges = $\frac{\text{wetted diameter (ft)}}{\text{gauge spacing (ft)}}$ = _____ = _____

d. Start of Irrigation event

e. End of Irrigation event

f. Duration (e-d) _____ min

g. Travel distance _____ feet

h. Operate the system, collect data, and record on the worksheet on page 8.

i. Sum of all catches 3.63 inches

j. Average catch (i/number of gauges) .45 inches

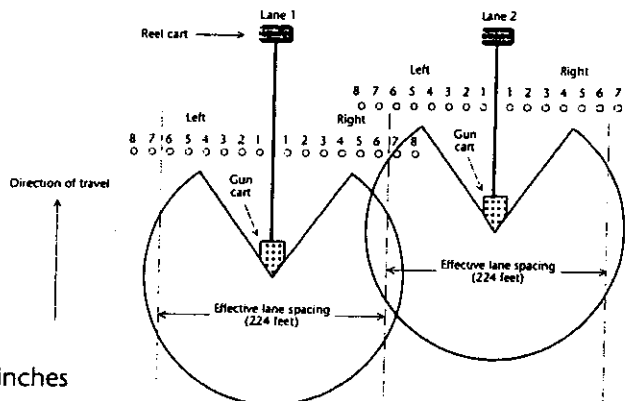
k. Average travel speed = $\frac{\text{Distance traveled (ft)}}{\text{Time (min)}}$ = 3.2 ft/min

l. Sum of all deviations from the average catch .97

m. Average deviation from average catch .12

n. Uniformity coefficient

$$U_c = \frac{.46 (j) - .12 (m)}{.45 (j)} \times 100 = 73.34\%$$



Interpret the calibration data and make necessary adjustments.

For travelers with proper overlap and operated in light wind, an application uniformity Coefficient greater than 85 is common.

Application uniformity between 70 to 85 is in the "good" range and is acceptable for wastewater application.

Generally, an application uniformity below 70 is considered unacceptable for wastewater irrigation using travelers. If the computed U_c is less than 70, system adjustments are required. Contact your irrigation dealer or Certified Technical Specialist for assistance.

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 150 T-142 Field Number (Identification) 2
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes 1 # Interior Lanes 1 # Exterior Lanes 350 [feet] Length of pull(L1)
1 # Interior Lanes 1 # Exterior Lanes 350 [feet] Length of pull(L2)
1 # Interior Lanes 1 # Exterior Lanes 350 [feet] Length of pull(L3)
4. Wetted Diameter 231 [feet] From field data sheet
5. Spacing 174 Hydrant Spacing [feet] 60 [as percent of wetted diameter]
6. Hydrant Layout ☒ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) ☐ Interior or ☒ Exterior (Lane/Hydrant)

1.65 (a) Acres start end of pull from Table EE75 Column B

1.9 (b) Acres middle portion of pull (L1)

{Pull Length 350 [feet] X Wetted Width 231 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

2.6 **Total acres for Travel Lane Length (L1) (Sum: a + b + c)**

Travel Lane Length (L2) ☐ Interior or ☒ Exterior (Lane/Hydrant)

1.65 (a) Acres start end of pull from Table EE75 Column B

1.9 (b) Acres middle portion of pull (L1)

{Pull Length 350 [feet] X Wetted Width 231 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

2.6 **Total acres for Travel Lane Length (L2) (Sum: a + b + c)**

Travel Lane Length (L3) ☐ Interior or ☐ Exterior (Lane/Hydrant)

1.65 (a) Acres start end of pull from Table EE75 Column B

1.9 (b) Acres middle portion of pull (L1)

{Pull Length 350 [feet] X Wetted Width 231 [feet]} / 43,560

0 (c) Acres stop end of pull from Table EE75 Column C

2.6 **Total acres for Travel Lane Length (L3) (Sum: a + b + c)**

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

2.6 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 2.6 Acres

2.6 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 2.6 Acres

2.6 (c) Acres per Travel Lane Length (L3) X 1 # Lanes = 2.6 Acres

5.2 **Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)**

Wettable Acre Computational Worksheet Completed by: Cal Henry Duff

Date: 9/20/99

Hard Hose Traveling Gun System COMPUTATIONAL WORKSHEET

1. Farm Number (Identification) 150 T-142 Field Number (Identification) 1
2. Irrigation System Designation ☒ Existing Irrigation System ☐ New/ Expanded Irrigation System
3. Number of Travel Lanes # Interior Lanes 1 # Exterior Lanes 345 [feet] Length of pull(L1)
 # Interior Lanes 1 # Exterior Lanes 486 [feet] Length of pull(L2)
 # Interior Lanes # Exterior Lanes [feet] Length of pull(L3)
4. Wetted Diameter 288 [feet] From field data sheet
5. Spacing 216 Hydrant Spacing [feet] 75 [as percent of wetted diameter]
6. Hydrant Layout ☒ Multiple Hydrants ☐ Single Hydrant ☐ Excessively spaced Hydrants
7. Read the irrigated area per travel pull for the given wetted diameter from the appropriate table and column based on pattern, spacing, and travel lane location.

Travel Lane Length (L1) Interior or ☒ Exterior (Lane/Hydrant)

1.7 (a) Acres start end of pull from Table EE 75 Column B

2.3 (b) Acres middle portion of pull (L1)

{Pull Length 345 [feet] X Wetted Width 288 [feet]} / 43,560

0 (c) Acres stop end of pull from Table Column

3.0 Total acres for Travel Lane Length (L1) (Sum: a + b + c)

Travel Lane Length (L2) Interior or ☒ Exterior (Lane/Hydrant)

1.7 (a) Acres start end of pull from Table EE 75 Column B

3.2 (b) Acres middle portion of pull (L1)

{Pull Length 486 [feet] X Wetted Width 288 [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

3.9 Total acres for Travel Lane Length (L2) (Sum: a + b + c)

Travel Lane Length (L3) Interior or Exterior (Lane/Hydrant)

 (a) Acres start end of pull from Table Column

 (b) Acres middle portion of pull (L1)

{Pull Length [feet] X Wetted Width [feet]} / 43,560

 (c) Acres stop end of pull from Table Column

 Total acres for Travel Lane Length (L3) (Sum: a + b + c)

8. Multiply the tabulated irrigated acreage value per travel pull by the number of pulls of each category in the field. Sum all of these and this is the total irrigated acreage for the field.

3.0 (a) Acres per Travel Lane Length (L1) X 1 # Lanes = 3.0 Acres

3.9 (b) Acres per Travel Lane Length (L2) X 1 # Lanes = 3.9 Acres

 (c) Acres per Travel Lane Length (L3) X # Lanes = Acres

6.9 Total CAWMP Wettable Acres for field (Sum: 8a + 8b + 8c)

Wettable Acre Computational Worksheet Completed by: Carl Henry Outy Jr. Date: 9/20/99



North Carolina Cooperative Extension Service

NORTH CAROLINA STATE UNIVERSITY
COLLEGE OF AGRICULTURE & LIFE SCIENCES

Chatham County Center • Post Office Box 279 • Pittsboro, North Carolina 27312 • Telephone: 919-542-8202 • FAX: 919-542-8246

To: Chatham County NRCS
Randy Jessup

From: Sam Groce, Agricultural Extension Agent

Re: Calibration of Honey Wagon

On Tuesday, December 16, 1997, I performed a calibration of the honey wagon owned by Thurman and Randy Jessup to spread liquid hog waste from their lagoon.

The honey wagon will apply 6,500 gallons of waste per acre running at usual ground speed and RPM's.

PLAT Results For: Chatham 6/28/2004 9:10:10 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 168
Field Number: 1
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P205: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 127
WV Factor (USER) 1.1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 3
SOLUBLE P = 8
LEACHATE P = 0
SOURCE P = 3

TOTAL P RATING = 14 (LOW)

PLAT Results For: Chatham 6/28/2004 9:11:42 AM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 168
 Field Number: 2
 Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
 Crop: Fescue (Hay) :
 BMPs: Vegetative Buffer Width = 10 ft.
 Tree/Shrub Buffer Width = 10 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface

applications
 Soil Loss: 2 t/ac/yr
 Receiving Slope Distance 0-9 ft
 Soil Test 0" - 4" 120
 WV_Factor (USER) 1.05
 Artificial Drainage System: NO
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	3
SOLUBLE P	=	8
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	14 (LOW)

PLAT Results For: Chatham 5/11/2004 11:50:16 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 168
Field Number: 3
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Tree/Shrub Buffer Width = 30 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 2
SOLUBLE P = 9
LEACHATE P = 0
SOURCE P = 3
TOTAL P RATING = 14 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 168
Field Number: 4
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 20 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P205: 53.4 lb
Application Method: All other surface

applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	14 (LOW)

PLAT Results For: Chatham 4/12/2004 3:24:46 PM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 5949
 Field Number: 1
 Soil Series: 45C: Badin-Tarrus complex, 8 to 15 percent slopes
 Crop: Fescue (Pasture)** :
 BMPs: Vegetative Buffer Width = 10 ft.
 Tree/Shrub Buffer Width = 10 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface applications
 Soil Loss: 2 t/ac/yr
 Receiving Slope Distance 10-19 ft
 Soil Test 0" - 4" 120
 WV Factor (USER) 1
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	7
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
TOTAL P RATING =		10 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 2
Soil Series: 45C: Badin-Tarrus complex, 8 to 15 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	7
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	10 (LOW)

PLAT Results For: Chatham 6/28/2004 9:34:54 AM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 5949
 Field Number: 3
 Soil Series: 45C: Badin-Tarrus complex, 8 to 15 percent slopes
 Crop: Fescue (Pasture)** :
 BMPs: Vegetative Buffer Width = 15 ft.
 Tree/Shrub Buffer Width = 15 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface
 applications
 Soil Loss: 2 t/ac/yr
 Receiving Slope Distance 10-19 ft
 Soil Test 0" - 4" 120
 WV Factor (USER) 1
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	5
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	8 (LOW)

PLAT Results For: Chatham 6/28/2004 9:37:44 AM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 5949
 Field Number: 4
 Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
 Crop: Fescue (Pasture)** :
 BMPs: Vegetative Buffer Width = 15 ft.
 Tree/Shrub Buffer Width = 15 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface
 applications
 Soil Loss: 2 t/ac/yr
 Receiving Slope Distance 20-29 ft
 Soil Test 0" - 4" 120
 WV_Factor (USER) 1
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	4
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	7 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 5
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 15 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 2
LEACHATE P = 0
SOURCE P = 1
TOTAL P RATING = 8 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 6
Soil Series: 45C: Badin-Tarrus complex, 8 to 15 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 15 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	5
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	8 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 7
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 15 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance: 10-19 ft
Soil Test 0" - 4": 120
WV Factor (USER): 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	5
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	8 (LOW)

PLAT Results For: Chatham 4/12/2004 3:38:28 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 8
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 15 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	6
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	9 (LOW)

PLAT Results For: Chatham 6/28/2004 9:44:57 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5949
Field Number: 9
Soil Series: 525C: Cid loam, 6 to 10 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface

applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	11
LEACHATE P	=	0
SOURCE P	=	4
<hr/>		
TOTAL P RATING	=	17 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 59490
Field Number: 1
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 15 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 5
SOLUBLE P = 1
LEACHATE P = 0
SOURCE P = 1
TOTAL P RATING = 7 (LOW)

PLAT Results For: Chatham 4/12/2004 4:05:17 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5960
Field Number: 1
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 20 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	14 (LOW)

PLAT Results For: Chatham 4/12/2004 4:07:36 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5960
Field Number: 2
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 25 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 2
SOLUBLE P = 9
LEACHATE P = 0
SOURCE P = 3

TOTAL P RATING = 14 (LOW)

PLAT Results For: Chatham 4/12/2004 4:09:40 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5960
Field Number: 3
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 1 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 120
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	13 (LOW)

PLAT Results For: Chatham 4/12/2004 4:14:36 PM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 5960
 Field Number: 4
 Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
 Crop: Fescue (Hay) :
 BMPs: Vegetative Buffer Width = 10 ft.
 Tree/Shrub Buffer Width = 20 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface applications
 Soil Loss: 1 t/ac/yr
 Receiving Slope Distance 10-19 ft
 Soil Test 0" - 4" 120
 WV Factor (USER) 1
 Artificial Drainage System: NO
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	13 (LOW)

PLAT Results For: Chatham 4/12/2004 4:17:04 PM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 5981
 Field Number: 1
 Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
 Crop: Fescue (Pasture)** :
 BMPs: Vegetative Buffer Width = 5 ft.
 Tree/Shrub Buffer Width = 25 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface applications
 Soil Loss: 1 t/ac/yr
 Receiving Slope Distance 10-19 ft
 Soil Test 0" - 4" 110
 WV Factor (USER) 1.1
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	2
SOLUBLE P	=	1
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	4 (LOW)

PLAT Results For: Chatham 4/12/2004 4:19:20 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5981
Field Number: 2
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 30 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 90
WV Factor (USER) 1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 4
SOLUBLE P = 1
LEACHATE P = 0
SOURCE P = 1
TOTAL P RATING = 6 (LOW)

PLAT Results For: Chatham 4/12/2004 4:23:40 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 5981
Field Number: 3
Soil Series: 45B: Badin-Tarrus complex, 2 to 8 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 5 ft.
Tree/Shrub Buffer Width = 20 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 95
WV Factor (USER) 1.1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	4
SOLUBLE P	=	1
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	6 (LOW)

PLAT Results For: Chatham 4/12/2004 4:26:03 PM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 9420
Field Number: 1
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 25 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 85
WV_Factor (USER) .93
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 1
SOLUBLE P = 9
LEACHATE P = 0
SOURCE P = 4

TOTAL P RATING = 14 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 166
Field Number: 1
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Mixed Cool Season Grass (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 20 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 300+ ft
Soil Test 0" - 4" 127
WV Factor (USER) 1.1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	1
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	3 (LOW)

PLAT Results For: Chatham 6/28/2004 8:51:50 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 166
Field Number: 2
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Mixed Cool Season Grass (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 21
WV_Factor (USER) 1.05
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	0
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	2 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 166
Field Number: 3
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 20 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 1 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 127
WV Factor (USER) 1
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	9
LEACHATE P	=	0
SOURCE P	=	3
<hr/>		
TOTAL P RATING	=	13 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 166
Field Number: 4
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Mixed Cool Season Grass (Hay) :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 15 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 30-49 ft
Soil Test 0" - 4" 14
WV_Factor (USER) 0.97
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	0
LEACHATE P	=	0
SOURCE P	=	1
TOTAL P RATING =		2 (LOW)

PLAT Results For: Chatham 6/28/2004 8:59:21 AM

INPUTS

Calendar Year: 2004
 County: Chatham
 Producer Identifier: Thurman Jessup
 Tract Number: 166
 Field Number: 5
 Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
 Crop: Mixed Cool Season Grass (Hay) :
 BMPs: Vegetative Buffer Width = 10 ft.
 Tree/Shrub Buffer Width = 10 ft.
 Fertilizers: Swine-Lagoon liquid
 Yearly Applied Amount: 1.36 ac in
 Lb P2O5: 53.4 lb
 Application Method: All other surface
 applications
 Soil Loss: 2 t/ac/yr
 Receiving Slope Distance 0-9 ft
 Soil Test 0" - 4" 21
 WV_Factor (USER) 1.05
 Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	0
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	2 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 142
Field Number: 1
Soil Series: 525B: Cid-Lignum complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 25 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface

applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 13
WV Factor (USER) 1.05
Artificial Drainage System: NO
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	0
SOLUBLE P	=	1
LEACHATE P	=	0
SOURCE P	=	4
<hr/>		
TOTAL P RATING	=	5 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 142
Field Number: 2
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 14
WV Factor (USER) 0.97
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	0
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	2 (LOW)

PLAT Results For: Chatham 6/28/2004 9:03:09 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 142
Field Number: 2
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 0-9 ft
Soil Test 0" - 4" 14
WV Factor (USER) 0.97
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	1
SOLUBLE P	=	0
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	2 (LOW)

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 142
Field Number: 3
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Tree/Shrub Buffer Width = 50 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications

Soil Loss: 2 t/ac/yr
Receiving Slope Distance 10-19 ft
Soil Test 0" - 4" 5
WV Factor (USER) 1.04
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P = 0
SOLUBLE P = 0
LEACHATE P = 0
SOURCE P = 1

TOTAL P RATING = 1 (LOW)

PLAT Results For: Chatham 6/28/2004 9:07:22 AM

INPUTS

Calendar Year: 2004
County: Chatham
Producer Identifier: Thurman Jessup
Tract Number: 142
Field Number: 4
Soil Series: 130B: Nanford-Badin complex, 2 to 6 percent slopes
Crop: Fescue (Pasture)** :
BMPs: Vegetative Buffer Width = 10 ft.
Tree/Shrub Buffer Width = 10 ft.
Fertilizers: Swine-Lagoon liquid
Yearly Applied Amount: 1.36 ac in
Lb P2O5: 53.4 lb
Application Method: All other surface applications
Soil Loss: 2 t/ac/yr
Receiving Slope Distance 30-49 ft
Soil Test 0" - 4" 127
WV_Factor (USER) 1.1
Hydrologic Condition: GOOD

OUTPUTS

PARTICULATE P	=	5
SOLUBLE P	=	2
LEACHATE P	=	0
SOURCE P	=	1
<hr/>		
TOTAL P RATING	=	8 (LOW)